February
Vol. 9

SAN ANTONIO RADIO CLUB
BULL-ETIN

1978
No. 3

President	George James	WB5LDN	Meets first and third Fridays at 7:30 PM (Sharp) at the Red Cross Bldg. 90 Brees St. All who have an interest in Amateur Radio are cordially invited to attend. Note- The door is locked at 7:30 PM, if you arrive late, ring the door bell.
Vice Pres.	(Ray Wangler, Acting)	W5EZD	
Secretary	Larry Humlicek	WA5PAF	
Treasurer	Gale Booher	WB5MMI	
Sgt-at-Arms	(Mercer Richardson, Acting)	KØVIF	

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Letters to the EDITOR should be addressed to: 6827 Spring Hurst, SAT 78249.

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Acting Assistant Editor's Comments: Mercer Richardson KØVIF

I wish to thank the club members who went out and "beat the bushes" to obtain news for this issue. Thanks to them, we have news to pass along to the rest of you. If the urge strikes you, sit down, write an article, and mail it to the editor. We need all the help we can muster. With the exit of Santa, we can now get down to the actual pursuit of enjoyment in Ham Radio. Contests are coming (see operating news later in the BULL-ETIN), The Russians are putting a Ham satelite into orbit along with our OSCAR 8 soon, and the Granddaddy of all contests--Field Day is approaching. This year should prove interesting for all of us. The club did well last year in Field Day and many of us are eagerly looking forward to this contest. We must look beyond the contest itself and look to its purpose. Providing communications during times of disasters and other emergencies have long been the forte of the amateur radio operator. Our disaster preparedness depends on planning, prior preparedness and prior testing of equipment. Now is the time to be thinking about and planning for our roles in time of disaster. Upon the occurrance of a electricity blackout, tornado, hurricane, flood or other disaster is the time for preplanned action and not wondering who is going to do what. To those who are now ready, thanks. To those of us who are not quite ready, let's plan NOW--before the disaster strikes. Once we are prepared, we stand as a noticeable asset to our community. And once prepared, we also stand ready to have fun at the annual Field Day demonstration of out capability to the general public. Watch later BULL-ETIN's for additional information on how you can help during emergencies,--- even from the comfort of your own home. Have more fun in '78, Mercer

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DEADLINE for Want Adds and Articles for the March Issue is February 3 1978 at the First Friday meeting of the SARC. If you are typing your article, be sure to single space and do not leave a space between paragraphs. Indent your paragraphs five spaces.

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CONTESTS & OPERATING EVENTS
By Jim Wright, K5CDT

Date	Event	Further Information
February 4-12	Novice Roundup	QST, January 1978, Page 83
February 11-12	Ten-Ten Winter QSO Party	Ten-Ten Bulletin, Fall, 1977 Page 13 or Robert Osborn, WA5JDU or Jim Wright, K5CDT
February 4-5 & March 4-5	DX Competition Phone	QST, December 1977, Page 67
February 18-19 & March 18-19	CW	
June 24-25	Field Day	QST, May 1978 and San Antonio Radio Club Meetings

There are, of course, many events other than those listed which may be of interest. The "Operating Events" column in QST should be consulted each month. Any amateurs in the San Antonio area wishing to publicize an event or contest in this column should submit complete information to this writer.

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NOTICIAS

February 3 -- Part II, Modern Techniques in Soldering IC's and Micro Modules. Don't miss this demonstration! You'll kick yourself if you do.

February 17-- The Basics of transmission lines and Antennas by Floyd Roland, W5JKU.

RESTRICTIONS ON 220 MHz operation by Amateurs near the White Sands Missile Test Center have been lifted by the FCC effective December 12. The ban had prohibited Amateur use of 220 in parts of west Texas and New Mexico during weekday working hours to prevent possible interference with missile range communication and telemetry signals affecting safety during live missile firings. TNX HR.

Free Want Adds can be placed in this bulletin by sending a written copy to the editor at the above address. The item must concern Amateur Radio and be non-commercial in nature (ie an item you are selling privately as an individual).

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RADIO CLUBS BULLETIN BOARD

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SARO - SARO will provide communications to the river parade this year. Anyone interested should contact Jim, WB5MZK. (Bill Lynch, Jr., WB5ZJC)

TELEPHONE POINEERS - The club met on January 10, and held yearly election of officers. President Homer, K5MEN, V-P Al Miller, Sec. Ed Taylor, Treas. Leonard were elected. The club will have a ten part program on digital clocks to be held for the first thirty minutes for the next ten meetings. The speaker will be Bobby Doggett. The Telephone club has about 30 members. Membership is open to all persons interested in Amateur Radio are Telephone Pioneers or are employed by an AT&T associated company. Meetings are held on the 2nd Tuesday of each month at 7:30 pm at 1010 N. St. Mary's Street in Room 1308. (K5MEN)

TEN-TEN CLUB - Ten meter DX has been real good with Japan, Germany and Spain comming through. The Band starts to open about 8:00 AM or 1400Z. New England pops in about 10:00 AM with the West Coast and Canada showing up about 3:00 PM (2100Z). Often Austrailia, Japan and New Zealand can be heard about this time. The Ten-Ten Winter QSO Party will be held on the 2nd weekend in February. The contest starts at 6:00 PM local on Friday and ends at 6:00 PM on Sunday. The correct Bluebonnet net frequency is 28.625 MHz not 28.265 MHz listed in the previous BULL-ETIN. (Robert, WA5JDU)

ALAMO DX AMIGOS - The club will hold its next meeting on February 1, at 7:30 PM (call John Sheen, K5DB, at 696-1879 for the meeting QTH). DX has been good in the morning hours on 10, 15, and 20 Meters. The annual DX Competition will be held on Feb. 4-5 and March 4-5 on phone and on Feb. 18-19 and March 18-19 on CW. The CQ WW WPX will be held on March 28 and 29th. Anyone interested in DX is invited to attend the Amigos meetings or call John Sheen. (K5DB)

QCWA - The next meeting will be the election of officers to be held January 28 at Luby's Cafeteria. All interested persons are invited to attend. Contact Ray Wangler,W5EDZ, for QCWA applications. (W5EDZ)

STARS - STARS has started working on Field Day. J. D. Delaney is the STARS FD chairman. All of the Club's officers from 1977 were reelected for 1978. (Joe Funk, K5ESX)

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*** IN A HAM SHACK,
ANY WIRE CUT TO LENGTH--WILL BE TOO SHORT!!! ***

TO OUR READERS & FRIENDS: TNX FOR SENDING MORE THAN WE COULD PRINT THIS MONTH & PLEASE PARDON OUR TYPO's.

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ALAMO YL;s - The Alamo YL's held a lunchon meeting on December 10, at Wyatt where they elected officers for 1978. President Francis Bruemmer was elected along with Sec/Treas Inea Cole. The next luncheon will be held at Wyatts Cafeteria on February 11 at 12:00 PM. Hope to see some new faces at that time. 33's... (Barbara, WB5GAH)

SMIRK - Membership now stands at 2446! YJ8KM, Port Vila, New Hebrides Island, is the newest member. His contacts include 22 countries and all 50 States. The SMIRK Net meets on 50.2 MHz at 10:00 PM on Sunday nights. Band conditions are down but are reported to be on the upswing. JA's report increased openings to VK, KG6, and ZL's recently. The first ZL to JA opening in ten years occurred a few weeks ago. Over 600 VK's are on 6 meters. Six meter operators should be on the look out for South America stations in the afternoon hours for the next few months. (Ray Clark, K5ZMS)

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TECHbits

This journal of the San Antonio Radio Club has been around for a number of years. While the Club has been orgainzed for over 50 years, I became associated with its publication 30 years ago in '46 & '47 when it was known as the Gutterdope. In the mid-60's it went to the Exciter and later to the present Bull-etin. But, rain or shine, the old SARC Bull-etin is delivered to all members of the Club as well as being sent out of town to certain readers of the League and national magazines. We hope the Bull-etin prospers well under its new management.

For the sixth year in a row, time stood still for one second on New Year's Day. The event occurred at 6 PM CST on New Year's eve when an additional second was inserted in the last minute of the year in London which is on the prime time meridian. It is necessary to insert this "leap second" each year so that all clocks can be coordinated to agree with the earth's spin which slows one second each year.

Do you know thatLouis Braille invented the Braille system when he was 15 years old? Braille was blind and the idea came to him from the dot-dash code punched on cardboard that Captain Charles Barbier used to send messages to his soldiers at night. He lived 1809-1852.

In case you have forgotten, PI to 25 decimal places is: 3.14159 26535 89793 23846 26433.

When amateurs came back on the air after being off for 4 years in WW II, they found the 160 meter band occupied by a signal they had never heard before. These signals were the LORAN A navigation signals with channel 1 at 1.950 MHz, CH 2 at 1.850 MHz, CH 3 at 1.900 MHz and CH 4 at 1.750 MHz. These signals are rather strong along the coast of the U.S., but at night they can be heard buzzing thousands of miles away.

The Pacific LORAN A stations operated by the Coast Guard ceased operation on the first day of the new year. These stations are being

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(cont) replaced by the more sophesticated LORAN C which operates on 100 KHz. After being on the air for 35 years, the Pacific chain of stations will be silent forever, once again leaving 160 meters for amateur operation. Other LORAN A stations will remain operational until they too are replaced.

When you think about it, you realize that a carbon resistor is a solid state device, and in addition, it is bi-directional.

Help stamp out crank phone calls -- convert your gear to touch-tone.

Remember, if you don't keep going around in circles, you'll fly off at a tangent.

The 3M Company recently announced a unique gun which will detect hot spots and hidden fires which are not visible to the eye. Utilizing the latest in infrared and solid state technologies, the battery-operated device registers small differences in temperature by detecting infrared radiation from any surface over which it is scanned. A red light on the back or the pistol-shaped device indicates a warmer area; a green light, a cooler area. The gun can be used to locate hot or faulty lighting ballasts, overheated fuse boxes, circuit breakers and junction boxes. Sounds like the infrared gun could be used in looking for hot spots in transistor and IC chip circuits.

Have a Good Year and Best Reguards for now. Cal Graf, W5LFM

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WHO's OSCAR?

Oscar is an Orbiting Satélite Carring Amateur Radio. OSCAR 8 as it will be known upon orbital insertion is due to ride piggyback on a Landsat C package thrust into orbit aboard a Thor-Delta rocket in the near future. The launch will take place at the Western Test range while the exact date cannot yet be determined. AMSAT reports indicate the new satelite should be orbited sometime in March. The satelite is presently known as AMSAT-OSCAR D until launch and is provided with the standard 2-to-10 meter and 3/4-to-2 meter links known as Modes A and J respectively. OSCAR 8's orbit is planned to be sun-synchronous with passes occurring about the same time each day. Since the altitude of OSCAR 8's orbit is 560 statute miles, just over half that of OSCARs 6 & 7, the usable time on an overhead pass will be about 18 minutes instead of the OSCAR 7 22 minutes. The prime mission of this OSCAR is to use the Mode A transponder for the ARRL OSCAR educational program in schools. Thus, OSCAR 8 may be left in Mode A during the weekdays and switched to Mode J only on weekends. The modes used and the amount of time available for each mode will depend on the load of the command stations and the condition of the on-board batteries. Solar cells will provide power for OSCAR 8 operations and battery charging throughout its design life of three years. If this OSCAR is built as ruggedly as it predacessors, it should be around long after its design life date passes. If any hams or science teachers are interested in using this fun type educational resource, you can obtain complete details from AMSAT Corporation, Post Office Box 427, Washington, D. C. 20044. I'm going to try to work OSCAR 8. How about the rest of you? I will be more than happy to help anyone get started; Just catch me at any meeting of the club (SARC). Mercer, KØVIF

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CLASSIFIED AND UN-CLASSIFIED

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We are open Saturdays, Call Tex, Craig or Woody for a trade ---- 333-6110. FT-227 YAESU "Memorizer" is here! Come out and see it!! $299.00. All other current Yaesu models in stock. We have Wilson WE 800, 1402, and 1405 HT's w/TT pads in stock. Drake 1525 EM Touchtone mikes are $49.50. We have Tempo 1's/AC for $425, Galaxy GT 500/AC/SPKR/VFO/CW filter $425 and an SBE 33 (80-15m) complete for 4195.00. We also have other used trade-in's--so come on out and look around.

CALL 333-6110 ---------- OPEN SATURDAYS ----------CALL 333-6110

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FOR SALE: ICOM 215 w/8 rptr ch, $180; Heath HW-7 w/manual,$50, Heath VHF-1 Seneca 6&2 m AM/CW Xmtr, Make Offer; also have ACCU-KEYER, SST antenna tuner, & 1977 US Callbook All in excellent condition. (Steve Sellers,WA3ZXK at KITY Radio Station ph 225-5111.

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COMPLETE AMATEUR STOCK OF MANY ACCESSORIES PLUS SMALL PARTS-WRITE OR CALL FOR NEEDS- IF WE DONT HAVE, WE CAN RECOMMEND WHO DOES!!.

TECHNICAL BOOKS IN STOCK: ARRL, SAMS, RIDER-HAYDEN, TAB, TI, RADIO CALLBOOK MANY MORE. COMPLETE ANTENNA SYSTEMS NEEDS IN STOCK.
MAX W5GJ MARY W5MBB DON K5AAD DAVE N5JJ CHESTER K5IXD LONNIE WD5EDE

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FOR SALE: White Elephant in Mint Condition. At last summer VHF Society convention I was lucky(?) to win a Carterphone Corporation Modem, for which I do not have the slightest use. I have never plugged it in, nor removed the cover to see what is inside. Only tech info is circuit diagram. Price tagged $75, will take $35. Jack Wills, W5OHB, 1012 Fawn Drive, Schertz, TX. Phone 651-6031(local call).

QST's--1933-1970--$2.00/year. CQ's-1947 to 1962, many copies, 20¢ each. Frank Jordan, W5edx, 2334 W. Mulberry, SATX 78201. Phone 733-8978.

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WHERE CAN I GET RTTY EQUIPMENT??? MERCER, KØVIF, ph 681-2459
wk 925-2645

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FOR SALE: 70 ft climable tower, $100; FT-101 EX, $525(W/XTALS); SP-101, $15; Siltronix Wattmeter, $40; MFJ CW Filter, $20; Gothem 2 El Quad, $40; 100 ft coax, $30; 2 HB keyers, $20; 1 HB headphone, $5, 1 Power Desk Mike, $10; 1 hand mike for FT-101, $10, 1 Heathkit antenna switch, $8== $823 All or None. Contact Lon Gillespie, WD5EIL, phone 569-4560 after 6:30 PM. Or Box 143, Leming, TX 78050

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Notes from Lucky Darn Novice... The attendance at the Club meetings has been great!!! There have been 60-100 people at every club meeting for the past four months. The Board of Directors is very pleased with the interest and support given the programs and will continue to provide programs at every meeting.

If you missed the first part of the program on "Modern Techniques of Soldering ICs & Micro Modules" you won't want to miss the second part. There will be a slide presentation on the state-of-the-art methods used by manufactures. Also presented will be helpful hints we can all use in our home workshops. Don't miss it on February 3rd.

Future programs include transmission lines, antennas, DC power supplies and a real treat, a VHF OSCAR demonstration by Pat Patterson, W5VY. A mini-Swapfest and Auction are also being planned. So keep an eye out for more info on programs in the next SARC BULL-ETIN.

**********73, George, WB5LDN**********

THEY'LL DO IT EVERY TIME - - - - - - By Jimmy Hatlo

OH, MR. FOOSTER.... IS YOUR BOY OPERATING HIS HAM RADIO SET AGAIN? MY TV IS ON THE FRITZ SAME AS BEFORE--SOME KIND OF INTERFERENCE-- IT JIGGLES UP AND DOWN!!
A HAM RADIO?! I'LL BET THAT'S WHY MY FUSE IN THE GARAGE BLEW!
NO! HE WENT FISHING-- IN FACT HE VERY SELDOM USES IT ANY MORE....
MAYBE THAT'S WHY MY WASHER'S BEEN OVER-SUDSING!!
DOC EPSOM WAS TELLING ME THAT HIS DIATHERMY MACHINE WAS ON THE BLINK! HE OUGHT TO KNOW ABOUT THIS....
AND THAT BIG AERIAL OF HIS....I'M SURE IT ATTRACTS LIGHTNING--AND US LIVING SO CLOSE!!
PITY THE AMATEUR RADIO OPS.... THEY GET BLAMED FOR EVERYTHING....
THANX AND A HAT TIP TO JIM FETTER, ROUTE 1, INVERNESS, FLA.

TNX,
FM Austin ARC

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